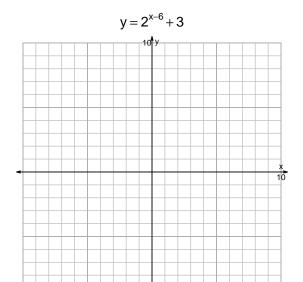
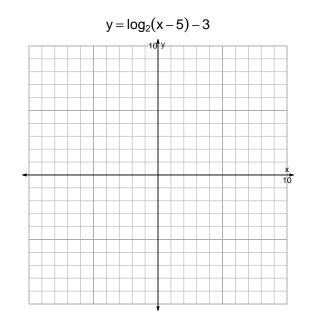
s18quiz: EXP LOG (QUIZ v248)

1. Graph $y=2^{x-6}+3$ and $y=\log_2(x-5)-3$ on the grids below. Also, draw any asymptotes with dotted lines.

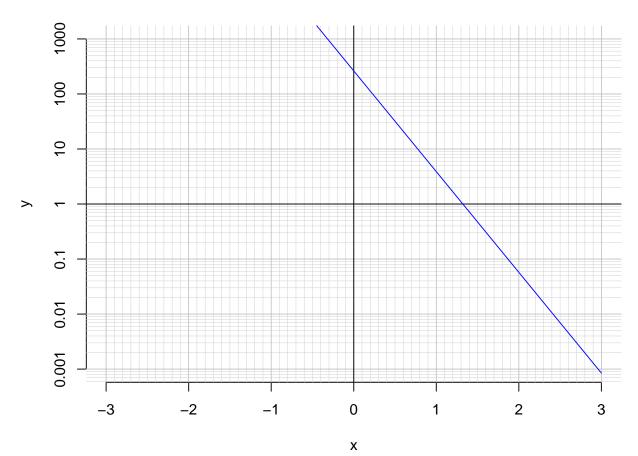




2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{3}{4}\right) \cdot 10^{-5t/7}$$

3. An exponential function $f(x) = 262 \cdot e^{-4.21x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate f(2.7).

- b. Express $f^{-1}(x)$, the inverse of f.
- c. Using the plot above, evaluate $f^{-1}(400)$.